



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/574,089

01/16/2007

Kosuke Uchiyama

UCHIYAMA-1-PCT/Minori

8927

156

7590

01/06/2010

Kirschstein, Israel, Schiffmiller & Pieroni, P.C.

425 FIFTH AVENUE

5TH FLOOR

NEW YORK, NY 10016-2223

EXAMINER

BECKER, DREW E

ART UNIT

PAPER NUMBER

1794

NOTIFICATION DATE

DELIVERY MODE

01/06/2010

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

AI@KIRSCHSTEINLAW.COM

ptoofficeactions@yahoo.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/574,089	<b>Applicant(s)</b> UCHIYAMA, KOSUKE	
	<b>Examiner</b> Drew E. Becker	<b>Art Unit</b> 1794	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 10 May 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 37-72 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 37-72 are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                    | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

**DETAILED ACTION**

***Election/Restrictions***

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 37-48, drawn to a method using fluid carbon dioxide.

Group II, claim(s) 44-48, drawn to a screw device.

Group III, claim(s) 49-55, drawn to a composition comprising polysaccharide and cellulose/hemicellulose.

Group IV, claim(s) 56-60, drawn to a composition consisting of starch and a nitrogen-containing aromatic component.

Group V, claim(s) 61-63, drawn to a bean curd lees composition.

Group VI, claim(s) 64-66, drawn to a branched polyester copolymer made from polyethylene terephthalate.

Group VII, claim(s) 67-69, drawn to a foamed polyester molding made from an aromatic polyester.

Group VIII, claim(s) 70, drawn to a branched polyester elastomer consisting of hard segment and soft segment.

Group IX, claim(s) 71-72, drawn to a capsule, thickener, and gelled product.

2. The inventions listed as Groups I-IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical

Art Unit: 1794

feature of group I (ie compressing a substance with carbon dioxide to produce a fluid of super- or sub-critical state, then processing the fluid at 10-1500 m/s) is absent from groups II, IV-VII; the special technical feature of group II (ie screw equipment with an orifice) is absent from groups I and III-IX; the special technical feature of group III (ie a thermoplastic composition comprising polysaccharide and cellulose/hemicellulose) is absent from groups I-II and IV-IX; the special technical feature of group IV (ie a thermoplastic composition consisting of starch and a nitrogen-containing aromatic component) is absent from groups I-III and V-IX; the special technical feature of group V (ie a bean curd lees composition molding consisting of a thermoplastic resin and bean curd lees) is absent from groups I-IV and VI-IX; the special technical feature of group VI (ie a branched polyester copolymer molding prepared by reacting polyethylene terephthalate and a branching agent with a melting point peak temperature of 120-190°C) is absent from groups I-V and VII-IX; the special technical feature of group VII (ie a polyester foamed molding made from an aromatic polyester, a branching agent with a melting point peak temperature of 150-195°C, photocatalytic titanium dioxide, and thermodegradable foaming agent) is absent from groups I-VI and VIII-IX; the special technical feature of group VIII (ie a branched polyester elastomer consisting of a hard segment and soft segment) is absent from groups I-VII and IX; and the special technical feature of group IX (ie a capsule, wafer, thickener, and gelled product) is absent from groups I-VIII.

3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

Art Unit: 1794

requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Drew E. Becker whose telephone number is 571-272-1396. The examiner can normally be reached on Mon.-Fri. 9am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/574,089  
Art Unit: 1794

Page 5

/Drew E Becker/  
Primary Examiner, Art Unit 1794